BDA Series

● 105℃ 2,000Hrs assured

- Vertical SMD type
- Long life of MVK Series.
- EBDA Series : Ecological capacitors with the same characteristics as BDA

Solvent-proof

MVK → BDA

Long life

SPECIFICATIONS

Item	Characteristics
Rated Voltage Range	4 ~ 35V_{DC}
Operating Temperature Range	-40 ~ +105℃
Capacitance Tolerance	±20% (M) (at 20℃, 120Hz)
Leakage Current	I = 0.01CV(㎂) or 3㎂, whichever is greater Where, I : Leakage current(㎂), C : Nominal capacitance(㎌), V: Rated voltage(V_{DC}) (at 20℃, 2 minutes)

Dissipation Factor Tanδ(Max.)

Rated Voltage(V_{DC})	4	6.3	10	16	25	35
Tanδ(Max.)	0.37	0.28	0.24	0.20	0.16	0.12

(at 20℃, 120Hz)

Temperature Characteristics (Max. Impedance ratio)

Rated Voltage(V_{DC})	4	6.3	10	16	25	35
Z(-25℃)/Z(20℃)	6	3	3	2	2	2
Z(-40℃)/Z(20℃)	12	8	5	4	3	3

(at 120Hz)

Load Life

The following specifications shall be satisfied when the capacitors are restored to 20℃ after the rated voltage applied for 2,000 hours. 105℃.

Rated Voltage(V_{DC})	4 ~ 16 V_{DC}	25 ~ 35 V_{DC}
Capacitance change	≤ ±25% of the initial value	≤ ±20% of the initial value
Tanδ	≤ 200% of the initial specified value	
Leakage current	≤ The initial specified value	

Shelf Life

The following specifications shall be satisfied when the capacitors are restored to 20℃ after exposing them 1,000hours at 105℃ without voltage applied. The rated voltage shall be applied to the capacitors for a Minimum of 30 minutes, at least 24 hours and not more than 48 hours before the measurements.

Rated Voltage(V_{DC})	4 ~ 16 V_{DC}	25 ~ 35 V_{DC}
Capacitance change	≤ ±25% of the initial value	≤ ±20% of the initial value
Tanδ	≤ 200% of the initial specified value	
Leakage current	≤ The initial specified value	

Others	Satisfied characteristics W of KS C 6421

PART NUMBERING SYSTEM

BDA 16 VC 100 M F60 TP

- TP — With tape
- F60 — Case code
- M — Capacitance tolerance(±20%)
- 100 — Nominal capacitance code
- VC — Lead type
- 16 — Rated voltage in volts
- BDA — Series name

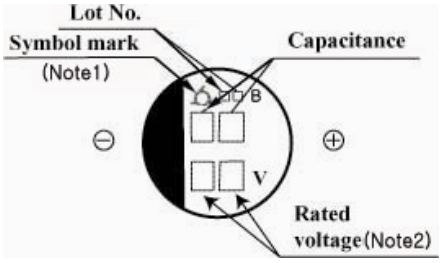
Capacitance	Code
0.1 µF	R1
0.47 µF	R47
1.0 µF	1
4.7 µF	4R7
10 µF	10
100 µF	100

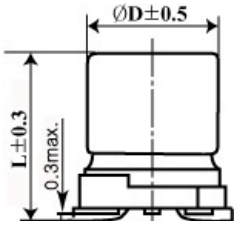
Case Code	ØD×Lmax(mm)
D55	Ø4 × 5.5L
E55	Ø5 × 5.5L
F55	Ø6.3 × 5.5L
F60	Ø6.3 × 6.0L

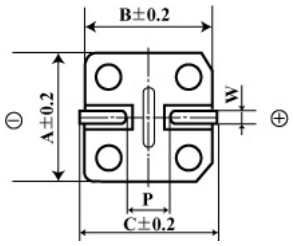
DIMENSIONS OF BDA Series (Type :VC)

DIMENSIONS

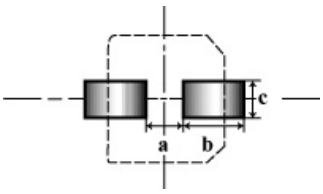
Marking







Recommended solder land on PC board



Sold land on PC board

Note 1 : 4 x 5.2(D55), 5 x 5.2(E55) is excluded symbol mark

Note 2 : 6.3WV is marked by 6V.

Note 3 : Case Color ; Clarity Green

Case code	Ø D	L	A	B	C	W	P	a	b	c
D55	4	5.2	4.3	4.3	5.1	0.5-0.8	1.0	1.0	2.6	1.6
E55	5	5.2	5.3	5.3	5.9	0.5-0.8	1.4	1.4	3.0	1.6
F55	6.3	5.2	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6
F60	6.3	5.7	6.6	6.6	7.2	0.5-0.8	1.9	1.9	3.5	1.6

RATINGS OF BDA Series

Permissible Ripple Current(mArms / 105℃, 120Hz)

V_{DC} / Item / μF	4(0G)		6.3(0J)		10(1A)		16(1C)		25(1E)		35(1V)	
	Case Code	Ripple Current	Case code	Ripple Current	Case code	Ripple Current	Case code	Ripple current	Case code	Ripple current	Ripple current	Case code
0.1												
0.22												
0.33												
0.47												
1												
2.2												
3.3												
4.7									D55	13	D55	15
10							D55	16	E55	25	E55	25
22	D55	19	D55	21	E55	30	E55	30	F55	40	F55	40
33	E55	30	E55	34	E55	34	F55	45	F55	45		
47	E55	34	E55	36	F55	48	F55	48	F60	52		
100	E55	45	F60	56	F60	90	F60	110				

▲ Permissible Ripple Current(mArms/105℃, 120Hz)

▲ Case Code